

Términos Técnicos

Taller Comercial y Técnico LACTLD

Modelo Cliente - Servidor

Clientes

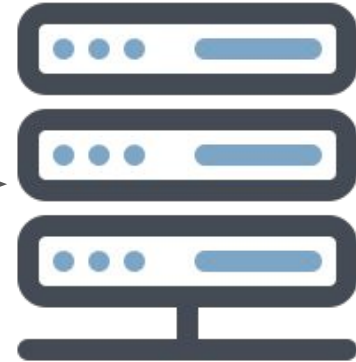


https://i-love-png.com/images/multi_devices.png



<https://image.flaticon.com/icons/svg/53/53885.svg>

Servidores



<https://img.icons8.com/cotton/2x/server.png>

Modelo Cliente - Servidor Web

Clientes

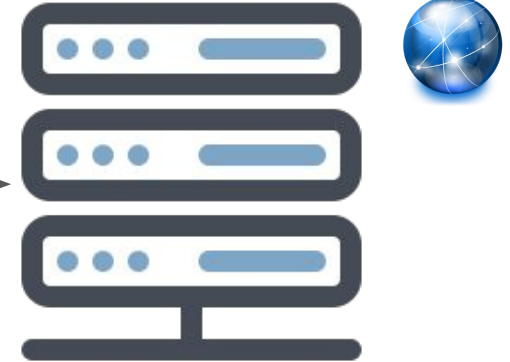


https://i-love-png.com/images/multi_devices.png



<https://image.flaticon.com/icons/svg/53/53885.svg>

Servidores



<https://img.icons8.com/cotton/2x/server.png>

Modelo Cliente - Servidor de Correo

Clientes

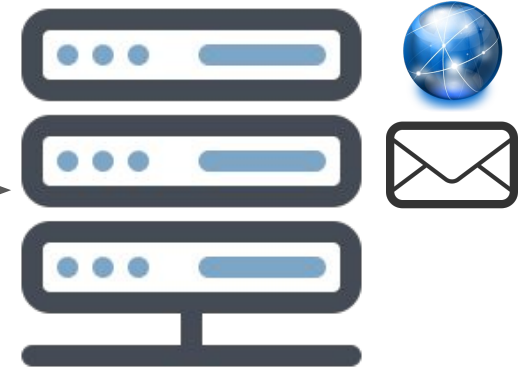


https://i-love-png.com/images/multi_devices.png



<https://image.flaticon.com/icons/svg/53/53885.svg>

Servidores



<https://img.icons8.com/cotton/2x/server.png>

Modelo Cliente - Servidor de Base de Datos

Clientes

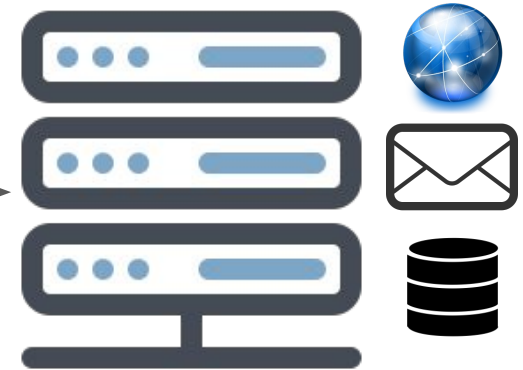


https://i-love-png.com/images/multi_devices.png



<https://image.flaticon.com/icons/svg/53/53885.svg>

Servidores



<https://img.icons8.com/cotton/2x/server.png>

Modelo Cliente - Servidor de DNS

Clientes



https://i-love-png.com/images/multi_devices.png



<https://image.flaticon.com/icons/svg/53/53885.svg>

Servidores



<https://img.icons8.com/cotton/2x/server.png>

Términos básicos de redes - Router

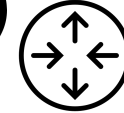
Clientes



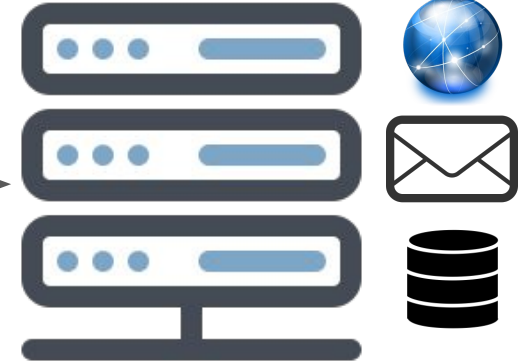
https://i-love-png.com/images/multi_devices.png



<https://image.flaticon.com/icons/svg/53/53885.svg>



Servidores



<https://img.icons8.com/cotton/2x/server.png>

Términos básicos de redes - Firewall

Clientes



https://i-love-png.com/images/multi_devices.png



<https://image.flaticon.com/icons/svg/53/53885.svg>

Servidores



<https://img.icons8.com/cotton/2x/server.png>

Términos básicos de redes - Puertos y Protocolos

Clientes



https://i-love-png.com/images/multi_devices.png

TCP/UDP
25 SMTP
53 DNS
80 HTTP



<https://image.flaticon.com/icons/svg/53/53885.svg>

Servidores



<https://img.icons8.com/cotton/2x/server.png>

Sistema DNS

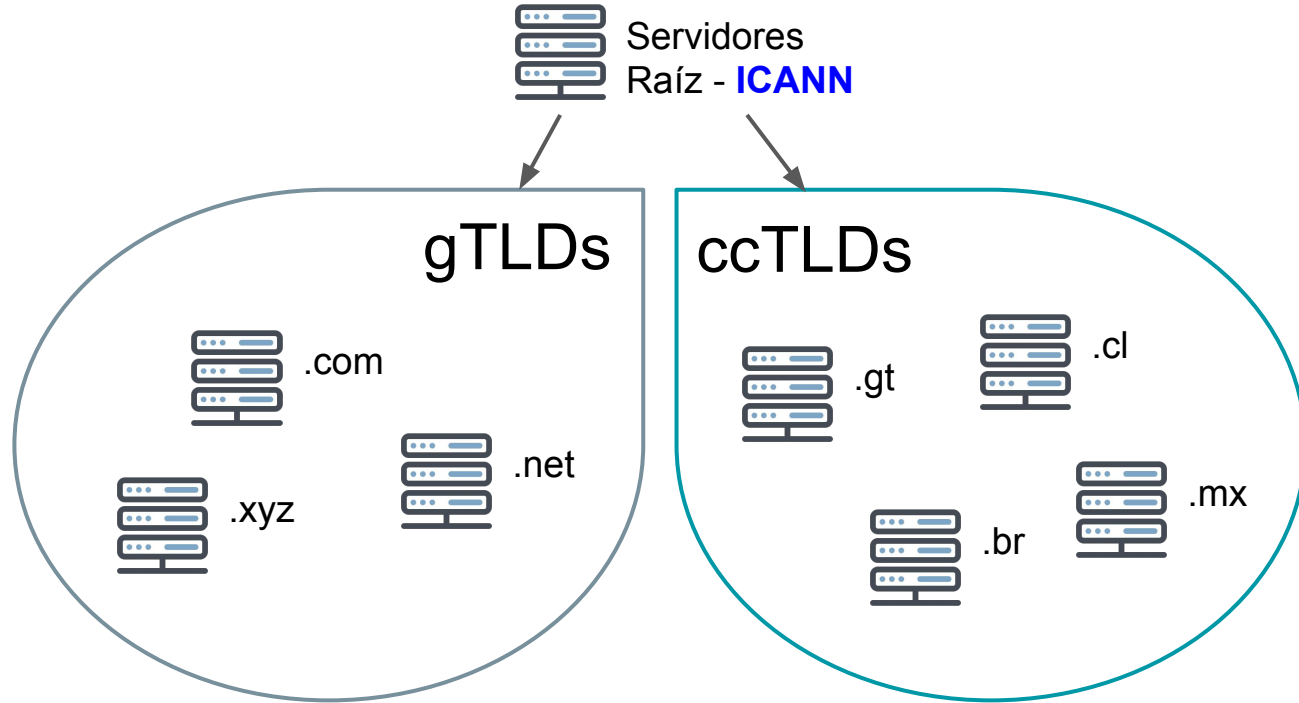


<https://www.google.com.gt>

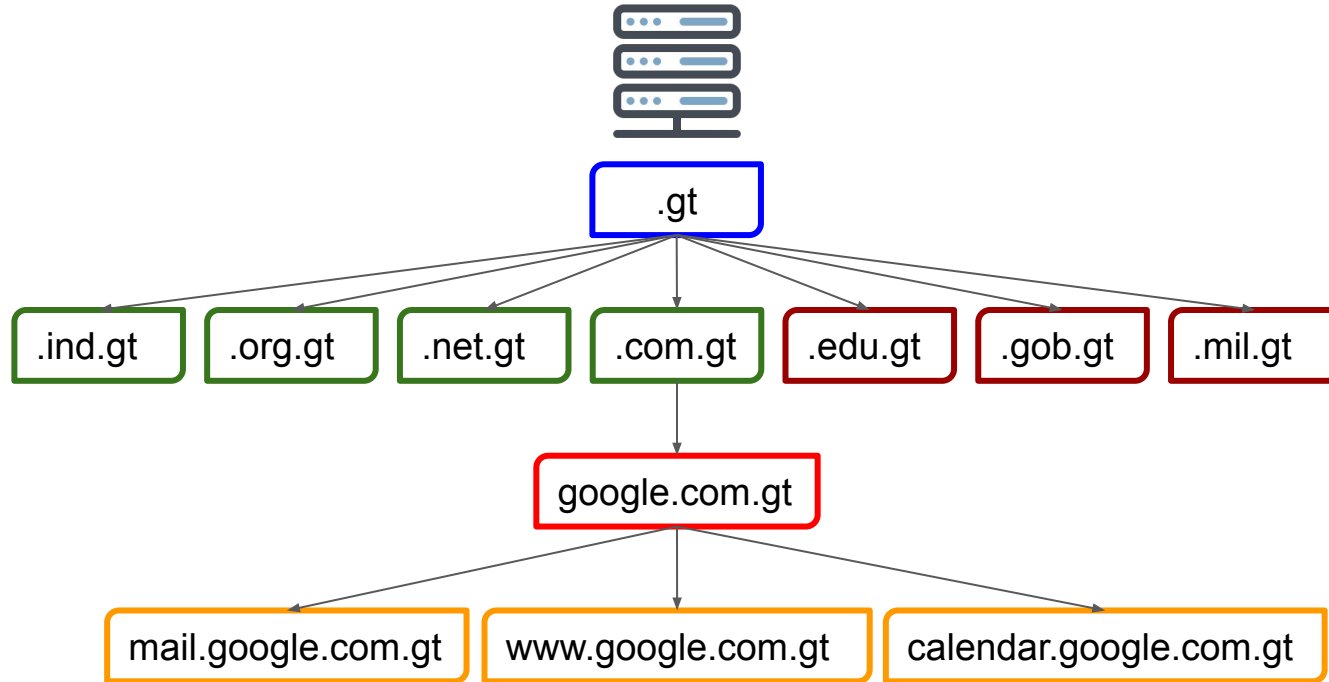
IPv4: **172.217.20.99**

IPv6: **2a00:1450:400e:80b::2003**

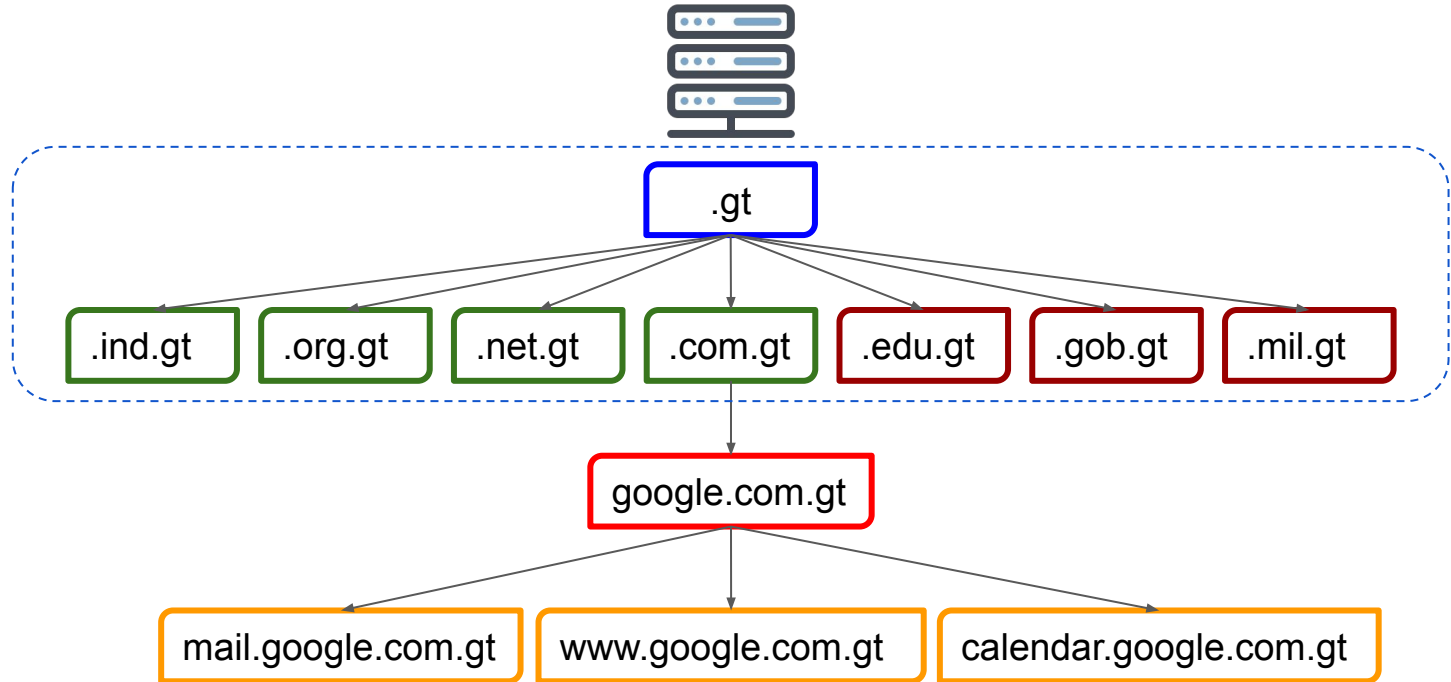
Sistema DNS - Jerarquía



Sistema DNS - Zonas, Autoridad y Delegación



Sistema DNS - Zonas, Autoridad y Delegación



Sistema DNS - Zonas: Registros



Los más usados en TLDs:

A	Registro de IPv4 para un host.
AAAA	Registro de IPv6 para un host.
NS	Define el servidor autoritativo para el dominio.
SOA	Start of Authority. Define el nombre de la zona, email de contacto, etc.

Otros utilizados por nuestros clientes:

MX	Servidor de Correo.
CNAME	Un alias para un host.

Sistema DNS



<https://www.google.com.gt>

.gt	1er nivel
.com	2do nivel
.google	3er nivel
www	Nombre de la máquina
https	Protocolo de comunicación

Web Server



Secure
https://www.google.com.gt

Web Server



Secure
<https://www.google.com.gt>

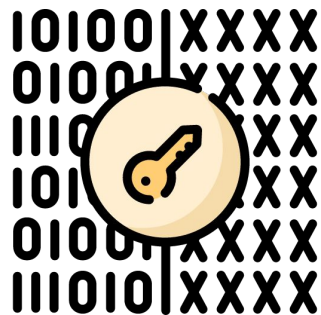


https://blog.easynews.com/wp-content/uploads/2015/06/EN_HTTPvsHTTPS_blog.jpg

Web Server



Secure
<https://www.google.com.gt>



Certificado TLS
Anteriormente SSL

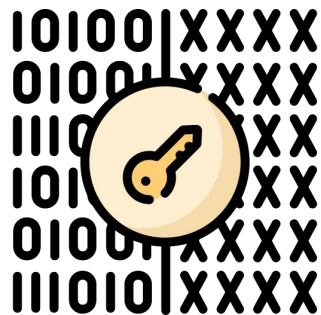


https://blog.easynews.com/wp-content/uploads/2015/06/EN_HTTPvsHTTPS_blog.jpg

Web Server



Secure
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Certificado TLS
Anteriormente SSL

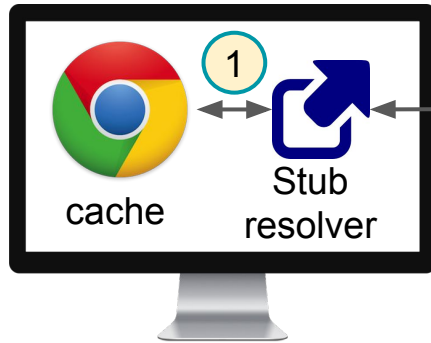
Verifica:

1. Entidad emisora
2. Vigencia
3. El nombre del dominio del host

Sistema DNS - Resolución de nombres

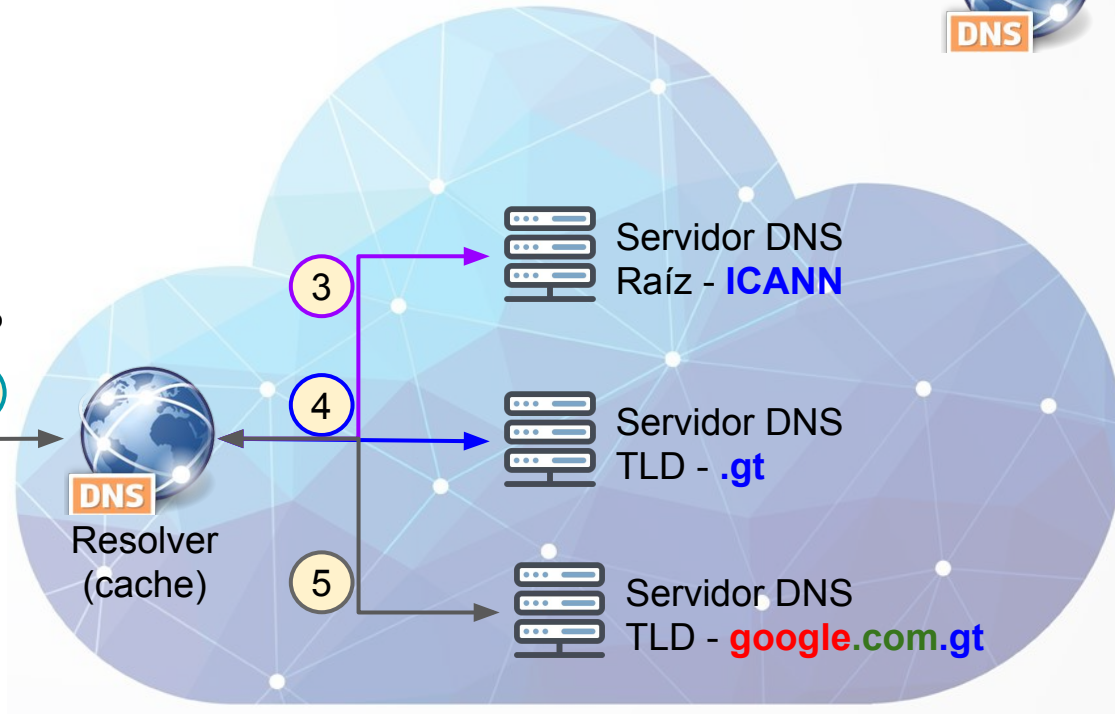


<https://www.google.com.gt>



ISP

2



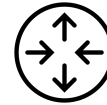
Sistema DNS - Anycast



Nodos Servidores



Ubicación Geográfica



Sistema de enrutamiento

Referencias

- Learn Networking Basics: <https://commotionwireless.net/docs/cck/networking/learn-networking-basics/>
- Client-Server model: https://en.wikipedia.org/wiki/Client%E2%80%93server_model
- DNS for rocket scientists: <http://www.zytrax.com/books/dns/>
- What Is DNS? | How DNS Works: <https://www.cloudflare.com/learning/dns/what-is-dns/>
- G Suite Toolbox dig: <https://toolbox.googleapps.com/apps/dig/>
- DNS Checker Propagation tool: <https://dnschecker.org/>
- Dig web interface: <https://www.digwebinterface.com/>
- Trace DNS Delegation: <https://simpledns.com/lookup-dg>
- Anycast: <https://anycast.lactld.org/>